



## **Continuous monitoring of critical areas**

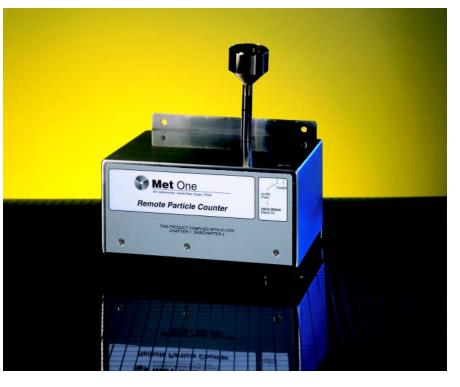
Model R5813/R5815 High Flow Remote Counters

## **FEATURES**

- Long Life Laser technology for superior performance
- 0.3 micron (R5813)
  0.5 micron (R5815)
- 1.0 cfm flow rate
- 2 size channels
- Stainless steel case
- RS-485 communications

## **APPLICATIONS**

- Cleanroom Monitoring
- Inert Gas Sampling
- Loadlock Profiling



Met One's Model R5813 and R5815 remote counters provide the high flow rate of 1.0 cfm (28.3 L/min) and the sensitivity of 0.3 microns. For years, the Met One Model R4800 family has provided remote sensors at 0.1 cfm for continuous monitoring at an economical cost. With an improved high flow rate and sensitivity, the Models R5813 and R5815 provide additional capabilities for continuous monitoring of critical areas. Plus, breakthrough Long Life Laser technology extends the average service life of the instrumentation's laser to more than ten years. Remote counters are used in conjunction with a Facility Monitoring System (FMS) to provide 24-hour monitoring of critical areas. This means it is possible to provide immediate operator feedback concerning particle events, improving production efficiency and minimizing time and waste.

Models R5813 and R5815 use RS-485 serial communications, allowing daisychained wiring between particle counters using only a single pair of wires. This RS-485 cable can be up to 4000 feet (1220 meters) from the computer to the last counter.

A user-programmed alarm contact is provided. When high counts trigger an alarm, the LED on the counter flashes and an alarm signal is set at the connector. The alarm automatically resets at the beginning of the next count cycle. Flow control is measured by critical orifice. For improved statistical sampling in cleanrooms, choose the Model R5813/R5815 particle counters with high flow rate.



## Model R5813/R5815 Remote Particle Counters

SPECIFICATIONS	Size Channels (µm)	R5813 Ch 1/Ch 2 0.3, 0.5 R5815 Ch 1/Ch 2 0.5, 5.0
	Flow Rate	R5815 Ch I/Ch 2 0.5, 5.0 I.0 cfm (28.3 L/min)
	Vacuum Level	Minimum 18" Hg (450 mbar)
	Data Output	RS485
	Flow Control	Critical orifice, requires 18" Hg (450 mbar) vacuum minimum
	Light Source	Laser diode (10-year MTTF)
	Coincidence Loss	5% at 400,000 particles/ft <sup>3</sup>
	False Count	Not more than one count in 5 minutes
	Inlet Pressure	Ambient to 0.1" Hg vacuum
	Indicators	Power and Sensor/Alarm LEDs
	Power	12 to 28 VDC at < 300 mA
	Connector	DB-15 (female) for both DC power and data
	Dimensions	6.9" w x 4.3" h x 5.1"d (17.5 x 11 x 13 cm)
	Weight	4.5 lbs (2 kg)
	Port Sizes	1/4" I.D. sample inlet
		I/4" I.D. vacuum connection
	Environment	Operating 55 to 84°F (12 to 29°C)
		20 to 95% relative humidity, non-condensing
		Storage -40 to 160°F (-40 to 70°C)
		up to 98% relative humidity, non-condensing
	Accessories Included	Isokinetic Probe; DB-15 Connector; Operator's Manual
ORDERING GUIDE	When ordering, specify:	0.3 μm (R5813) or 0.5 μm (R5815)
OPTIONAL	Switching Power Supply	7.0" 5.1"
ACCESSORIES	Isokinetic Probes for 1.0 cfm	
	Wall Plates for Vacuum/DC Power	
	Sample or Vacuum Tubing Particle Vision® Online Software	
	CIMScan <sup>®</sup> Software	
	Christan Soltwale	4.5"
		4.5 (11.4 cm)

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